



## RF EXPOSURE EVALUATION

|                     |   |  |
|---------------------|---|--|
| Product Name        | : | TeslaMic   |
| Model Name          | : | TSL42  |
| Operating frequency | : | 657MHz-663MHz  |
| Numbers of Channel  | : | 13 channels for FM                                       |
| Antenna Type        | : | PCB Antenna  |
| Antenna Gain        | : | -10.1 dBi  |
| Type of Modulation  | : | FM   |
| Power supply        | : | Li-ion Battery: Rated Voltage: 3.6V<br>Capacity: 2500mAh |
| Hardware Version    | : | v1.0   |
| Software Version    | : | v1.0   |



#### Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq 50\text{mm}$  are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

The max. average power of channel, including tune-up tolerance(mW) is 0.683mW 663MHz (With Tune-up tolerance).The min. test separation distance (mm) is 5 mm, So,  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.111195 < 3.0$  (With Tune-up tolerance).Therefore, standalone SAR measurements are not required for both head and body.

Signature

A handwritten signature in black ink, appearing to read "Ronnie Liu".

Ronnie Liu

EMC Manager

Date: 2022-09-30